

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637887

Luminaire Tested: GWS-SA4D-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16562.1 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

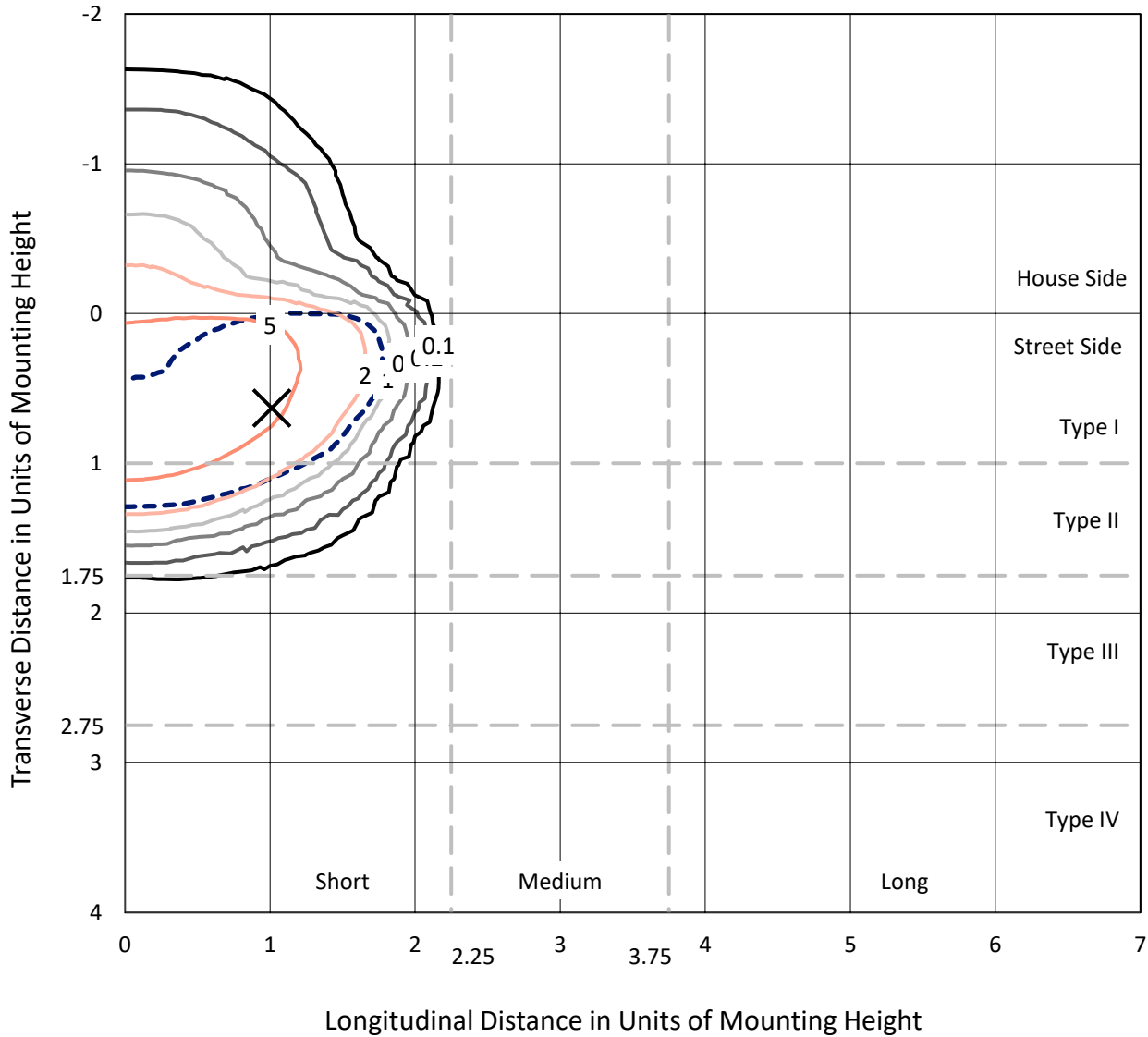
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637887
 CATALOG NUMBER: GWS-SA4D-760-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

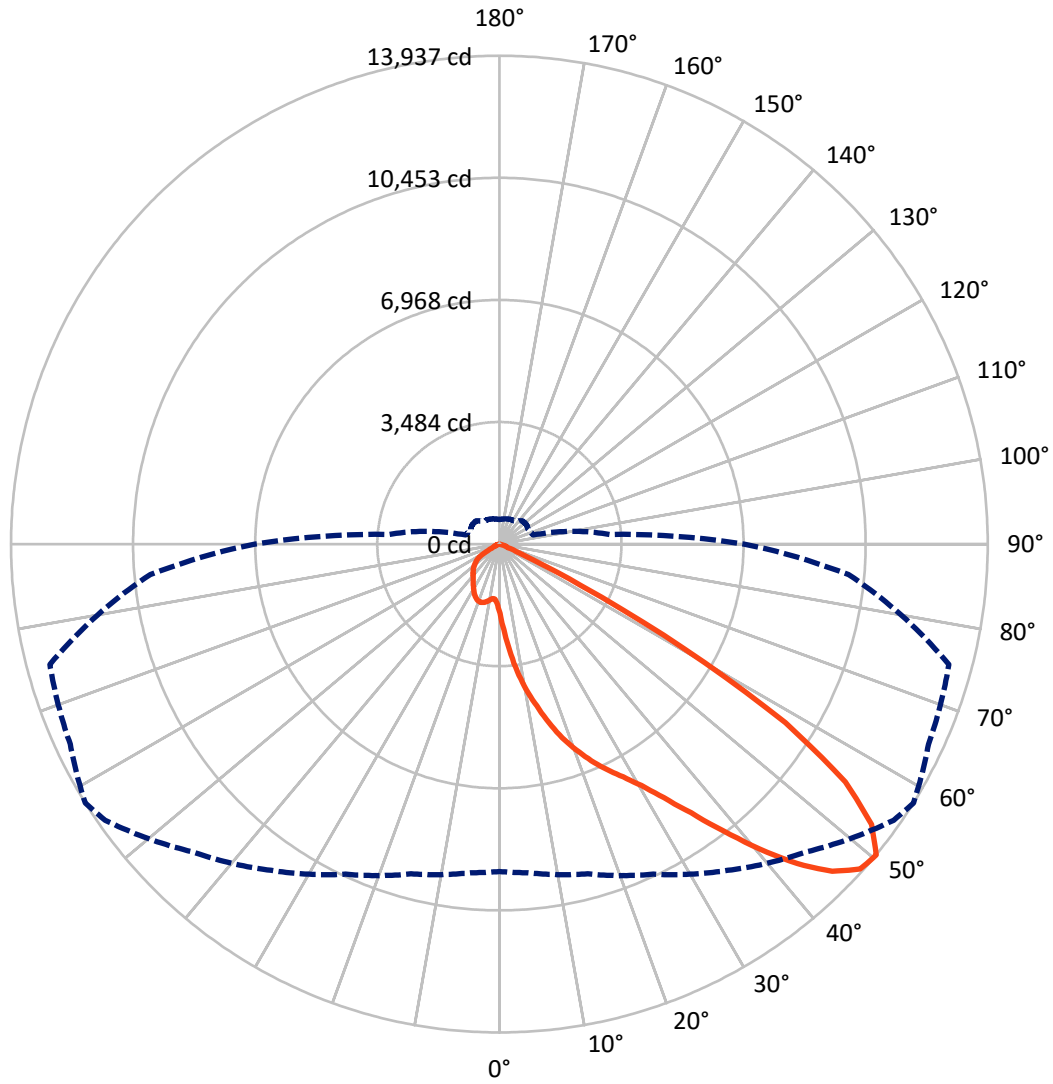
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P637887
CATALOG NUMBER: GWS-SA4D-760-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P637887
 CATALOG NUMBER: GWS-SA4D-760-U-T2R-W-GRSBK

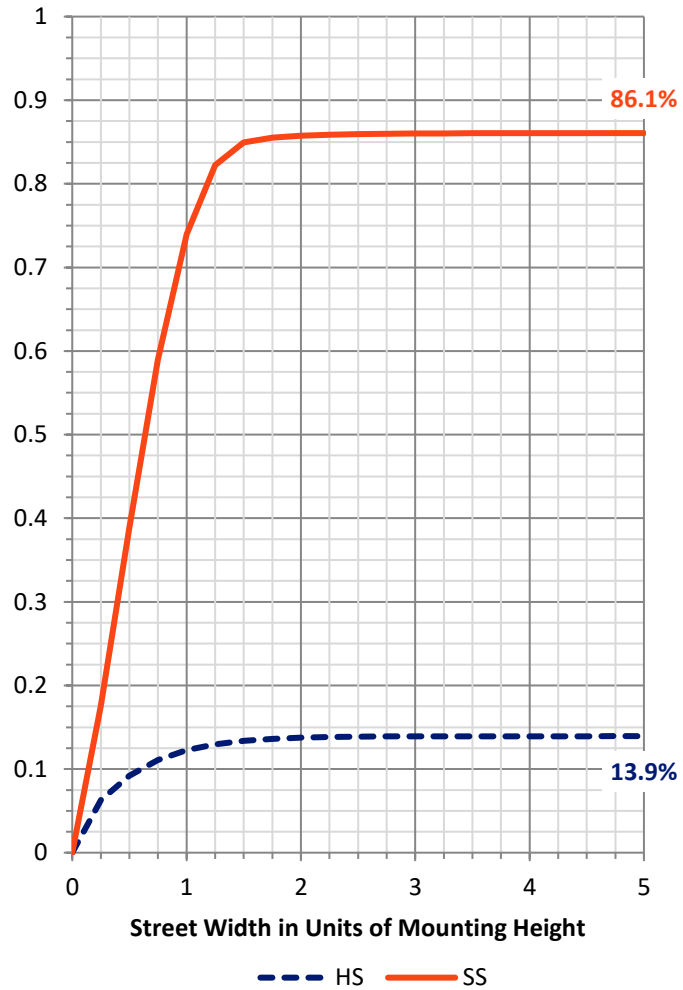
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2319.8	0.0	2319.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14242.4	0.0	14242.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	16562.1	0.0	16562.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.5
10°-20°	970.2	5.9
20°-30°	1963.3	11.9
30°-40°	3473.2	21.0
40°-50°	5063.2	30.6
50°-60°	4058.3	24.5
60°-70°	731.1	4.4
70°-80°	57.6	0.3
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16562.1	100.0
0°-180°	16562.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637887

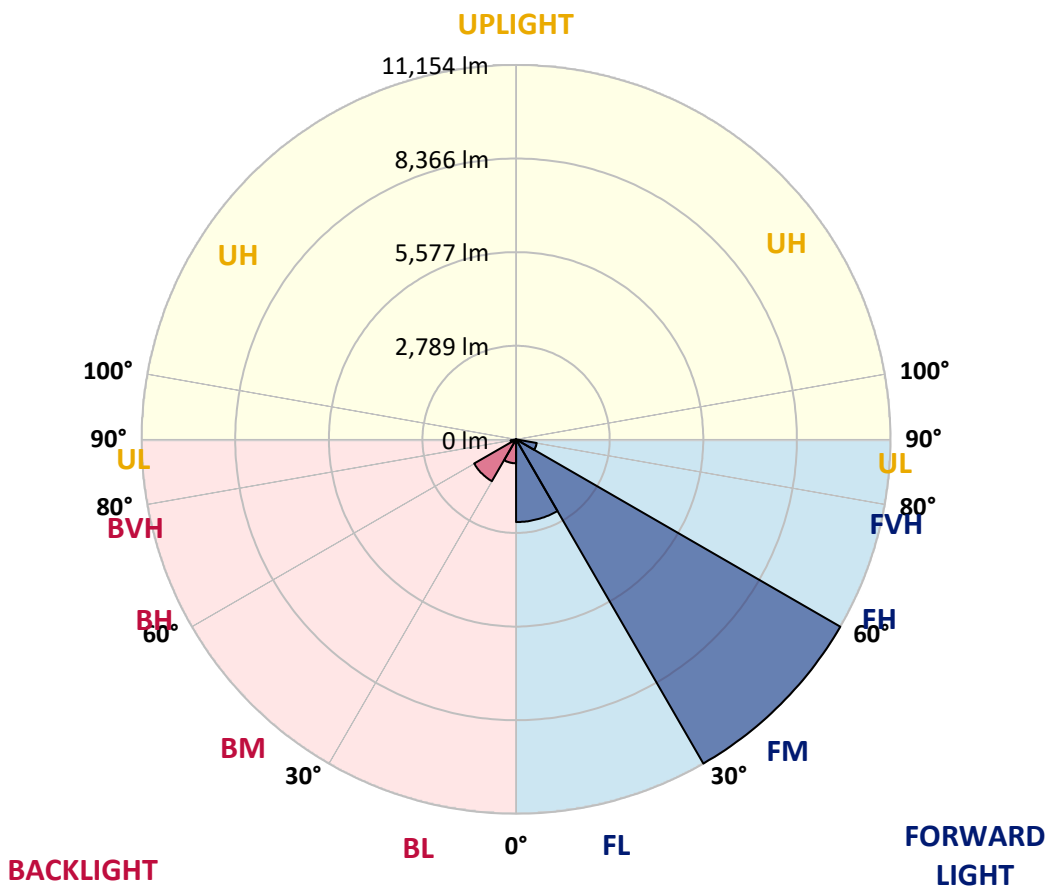
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.4	14.9			
FM (30°-60°)	11154.1	67.3			
FH (60°-80°)	623.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	714.2	4.3	B2/1000		
BM (30°-60°)	1440.7	8.7	B2/2500		
BH (60°-80°)	164.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P637887

CATALOG NUMBER: GWS-SA4D-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3
2.5°	2927.6	2881.6	2855.0	2833.8	2739.9	2591.1	2493.7	2442.3	2357.3	2213.9	2089.9
5°	3820.3	3786.6	3724.6	3682.1	3561.7	3350.9	3133.1	3046.3	2853.2	2529.1	2238.7
7.5°	4411.8	4387.0	4364.0	4307.3	4194.0	4002.7	3761.8	3671.5	3373.9	2913.5	2437.0
10°	4867.0	4847.5	4820.9	4819.2	4730.6	4558.8	4323.2	4229.4	3907.0	3331.4	2670.8
12.5°	5267.2	5251.3	5246.0	5295.6	5238.9	5111.4	4856.3	4739.5	4397.6	3758.3	2929.4
15°	5541.8	5538.2	5561.2	5658.7	5690.5	5632.1	5417.8	5292.0	4898.9	4186.9	3214.5
17.5°	5667.5	5678.1	5722.4	5890.7	6032.4	6081.9	5917.2	5811.0	5396.5	4620.8	3519.2
20°	5881.8	5878.3	5904.8	6064.2	6237.8	6414.9	6365.3	6275.0	5899.5	5079.5	3857.4
22.5°	6485.8	6434.4	6377.7	6402.5	6464.5	6671.7	6763.8	6717.8	6418.5	5550.6	4206.4
25°	7413.8	7360.7	7178.3	7001.1	6884.3	6978.1	7103.9	7126.9	6933.8	6034.1	4571.2
27.5°	8398.5	8350.7	8145.3	7879.6	7544.9	7381.9	7475.8	7521.8	7440.4	6609.7	4959.1
30°	9321.3	9257.5	9032.6	8703.2	8315.3	8065.6	7959.3	7991.2	8039.0	7291.6	5414.2
32.5°	10121.8	10074.0	9804.8	9457.7	9084.0	8823.6	8575.6	8628.8	8745.7	8125.8	5996.9
35°	10800.1	10775.3	10490.2	10144.8	9749.9	9617.1	9404.5	9415.1	9532.0	9133.5	6707.1
37.5°	11389.9	11347.4	11088.8	10768.3	10454.8	10433.5	10375.1	10380.4	10440.6	10307.8	7523.6
40°	11761.8	11722.9	11538.7	11340.3	11117.2	11120.7	11423.6	11446.6	11377.5	11460.8	8386.1
42.5°	11901.8	11873.4	11774.2	11776.0	11753.0	11857.5	12426.0	12468.5	12220.6	12365.8	9122.9
45°	11659.1	11646.7	11653.8	11908.9	12185.1	12507.5	13246.0	13320.4	12969.7	12966.2	9698.5
47.5°	10876.3	10851.5	11058.7	11492.6	12132.0	12759.0	13741.9	13857.1	13494.0	13309.8	10059.8
50°	9342.5	9413.4	9741.0	10392.8	11365.1	12413.6	13736.6	13936.8	13513.5	13279.7	9999.6
52.5°	6767.4	6753.2	7470.5	8366.7	9549.8	11308.4	13006.9	13299.2	13040.6	12983.9	9865.0
55°	3682.1	3811.4	4294.9	5481.5	6958.6	9216.8	11340.3	11977.9	12277.2	12875.9	10107.6
57.5°	1353.1	1409.8	1712.6	2552.1	3683.9	5731.3	8662.4	9624.1	10548.6	12574.8	10066.9
60°	545.5	556.1	676.6	938.7	1547.9	2917.0	5196.4	6050.1	6921.4	9625.9	7725.5
62.5°	396.7	410.9	458.7	549.0	782.8	1275.2	2240.4	2605.3	2847.9	4767.8	3806.1
65°	320.6	331.2	370.2	410.9	517.2	685.4	722.6	696.0	692.5	1232.7	873.2
67.5°	265.7	276.3	304.6	333.0	371.9	341.8	248.0	260.4	212.5	210.8	171.8
70°	194.8	207.2	235.6	265.7	223.2	92.1	143.5	212.5	161.2	134.6	131.1
72.5°	147.0	155.9	182.4	173.6	65.5	35.4	95.6	154.1	124.0	99.2	97.4
75°	109.8	115.1	92.1	28.3	7.1	8.9	35.4	63.8	69.1	56.7	56.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.3	7.1	8.9	10.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GWS-SA4D-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3	1978.3
2.5°	2019.0	1944.7	1838.4	1749.8	1682.5	1617.0	1567.4	1517.8	1516.1	1491.3	1485.9
5°	2104.1	1969.5	1774.6	1634.7	1549.7	1498.3	1462.9	1445.2	1436.4	1427.5	1424.0
7.5°	2226.3	2033.2	1764.0	1615.2	1544.4	1510.7	1485.9	1475.3	1470.0	1462.9	1461.2
10°	2376.8	2125.3	1803.0	1652.4	1590.4	1558.6	1532.0	1516.1	1507.2	1494.8	1491.3
12.5°	2557.5	2238.7	1865.0	1714.4	1648.9	1606.4	1571.0	1547.9	1535.5	1519.6	1516.1
15°	2752.3	2360.9	1934.0	1771.1	1693.2	1638.3	1594.0	1558.6	1535.5	1516.1	1510.7
17.5°	2954.2	2484.8	1996.0	1810.1	1714.4	1648.9	1585.1	1537.3	1509.0	1484.2	1477.1
20°	3180.9	2612.4	2036.8	1817.1	1707.3	1620.6	1546.2	1485.9	1457.6	1424.0	1416.9
22.5°	3418.2	2731.0	2054.5	1801.2	1668.4	1567.4	1487.7	1425.7	1385.0	1349.6	1338.9
25°	3648.5	2837.3	2045.6	1756.9	1609.9	1493.0	1411.6	1347.8	1303.5	1268.1	1259.2
27.5°	3892.9	2925.9	2013.7	1691.4	1530.2	1411.6	1333.6	1278.7	1238.0	1199.0	1190.2
30°	4167.4	3007.3	1962.4	1611.7	1436.4	1328.3	1268.1	1230.9	1186.6	1145.9	1133.5
32.5°	4498.6	3079.9	1888.0	1516.1	1353.1	1255.7	1222.1	1193.7	1142.4	1099.9	1091.0
35°	4877.6	3140.2	1794.1	1416.9	1271.6	1209.7	1202.6	1165.4	1098.1	1048.5	1037.9
37.5°	5316.8	3198.6	1682.5	1319.5	1211.4	1188.4	1190.2	1126.4	1044.9	984.7	977.6
40°	5789.7	3257.0	1558.6	1234.5	1156.5	1176.0	1160.1	1069.7	936.9	878.5	871.4
42.5°	6282.1	3320.8	1432.8	1154.8	1110.5	1128.2	1105.2	956.4	860.8	830.6	827.1
45°	6726.6	3397.0	1296.4	1075.1	1064.4	1059.1	1020.2	866.1	825.3	804.1	802.3
47.5°	7047.2	3384.6	1151.2	998.9	1014.8	997.1	878.5	823.6	789.9	761.6	754.5
50°	6988.7	3168.5	1000.7	913.9	951.1	935.1	789.9	774.0	743.9	713.8	703.1
52.5°	6840.0	2874.5	869.6	823.6	882.0	844.8	729.7	713.8	687.2	648.2	635.8
55°	6919.7	2598.2	766.9	750.9	811.2	699.6	662.4	637.6	609.3	566.8	561.4
57.5°	6662.9	2120.0	616.3	627.0	717.3	596.9	580.9	542.0	494.1	465.8	462.3
60°	4611.9	1138.8	386.1	398.5	518.9	501.2	520.7	485.3	426.8	400.3	395.0
62.5°	2118.2	456.9	210.8	201.9	272.7	340.1	446.3	442.8	370.2	327.7	324.1
65°	513.6	209.0	150.5	141.7	154.1	203.7	290.5	348.9	299.3	249.7	244.4
67.5°	166.5	170.0	138.1	129.3	136.4	152.3	173.6	193.0	191.3	175.3	171.8
70°	132.8	154.1	127.5	116.9	116.9	122.2	116.9	93.9	81.5	88.6	92.1
72.5°	99.2	116.9	101.0	90.3	86.8	85.0	72.6	53.1	37.2	33.7	31.9
75°	58.4	65.5	62.0	53.1	49.6	44.3	35.4	23.0	12.4	8.9	5.3
77.5°	10.6	12.4	14.2	10.6	8.9	7.1	5.3	1.8	0.0	0.0	0.0
80°	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)